

**Schultz, James**

---

**To:** STIC-ILL  
**Subject:** articles for 09/700,906

Hello,  
Could you please obtain the following:

1) Maeshima Y; Kashihara N; Sugiyama H; Makino H; Ota Z,  
JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY, (1996 Oct) 7 (10) 2219-29.

2) Cell proliferation-associated nuclear antigen defined by antibody Ki-67: a new kind of cell cycle-maintaining proteins.  
Duchrow M; Schluter C; Key G; Kubbutat M H; Wohlenberg C; Flad H D; Gerdes J  
ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS, (1995) 43 (2) 117-21.

Thanks,  
Doug Schultz

J. Douglas Schultz, Ph.D.  
AU 1635 (Biotechnology)  
Patent Examiner  
United States Patent and Trademark Office  
(703) 308-9355  
(703) 305-3014 (fax)  
Office: CM1 12E18  
Mail: CM1 11E12

SEQ ID NO: 3

FILE 'HOME' ENTERED AT 13:56:37 ON 16 DEC 2002

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:56:45 ON 16 DEC 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 DEC 2002 HIGHEST RN 476300-36-4

DICTIONARY FILE UPDATES: 15 DEC 2002 HIGHEST RN 476300-36-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s accaggcgtctcgtgggccacat/sqsn

L1 4 ACCAGGCGTCTCGTGGGCCACAT/SQSN

=> d l1 kwic sql 1-4

L1 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2002 ACS

SEQ 1 accaggcgtc tcgtgggccac cat

=====

HITS AT: 1-23

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

SQL 23

L1 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2002 ACS

SEQ 19251 gaccgtcgac cccgctcctt ttgatagtaa ccaggcgtct cgtgggccac

= =====

19301 attttctaaa cagtaagttg agtataatcc gtaggggaag gccaggtata

==

HITS AT: 19280-19302

SQL 140466

L1 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2002 ACS

SEQ 1 accaggcgtc tcgtgggccac cat

=====

HITS AT: 1-23

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

SQL 23

L1 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2002 ACS

SEQ 1 accaggcgctc tcgtgggccca cat

=====

HITS AT: 1-23

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

SQL 23

=> FIL MEDLINE BIOSIS EMBASE CA SCISEARCH	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	47.32	47.53

FILE 'MEDLINE' ENTERED AT 13:59:38 ON 16 DEC 2002

FILE 'BIOSIS' ENTERED AT 13:59:38 ON 16 DEC 2002

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FILE 'EMBASE' ENTERED AT 13:59:38 ON 16 DEC 2002

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FILE 'SCISEARCH' ENTERED AT 13:59:38 ON 16 DEC 2002

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=> s l1

'SQSN' IS NOT A VALID FIELD CODE

L2 1 L1

=> d l1 ibib abs

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

ENTER DISPLAY FORMAT (IDE):max

L1 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 390223-46-8 REGISTRY

CN GenBank AX009578 (9CI) (CA INDEX NAME)

FS NUCLEIC ACID SEQUENCE

SQL 23

NA 4 a 8 c 7 g 4 t

SEQ 1 accaggcgctc tcgtgggccca cat

=====

HITS AT: 1-23

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: GENBANK

=> d his

(FILE 'HOME' ENTERED AT 13:56:37 ON 16 DEC 2002)

FILE 'REGISTRY' ENTERED AT 13:56:45 ON 16 DEC 2002

L1 4 S ACCAGGCGTCTCGTGGGCCACAT/SQSN

FILE 'MEDLINE, BIOSIS, EMBASE, CA, SCISEARCH' ENTERED AT 13:59:38 ON 16 DEC 2002

L2 1 S L1

FILE 'REGISTRY' ENTERED AT 14:00:35 ON 16 DEC 2002

FILE 'MEDLINE, BIOSIS, EMBASE, CA, SCISEARCH' ENTERED AT 14:09:44 ON 16 DEC 2002

=> d l1 all

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L1 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2002 ACS  
RN 390223-46-8 REGISTRY  
CN GenBank AX009578 (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
SQL 23  
NA 4 a 8 c 7 g 4 t

SEQ 1 accagggcgtc tcgtggggcca .cat  
=====

HITS AT: 1-23

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: GENBANK

=> d l1 3-4 all

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L1 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2002 ACS  
RN 251353-35-2 REGISTRY  
CN 2: PN: DE19822954 PAGE: 3 unclaimed DNA (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
SQL 23  
NA 4 a 8 c 7 g 4 t

PATENT ANNOTATIONS (PNTE):

Sequence | Patent  
Source | Reference  
=====+=====

Not Given|DE19822954  
|unclaimed  
|PAGE 3

SEQ 1 accaggcgctc tcgtgggccca cat  
=====

HITS AT: 1-23

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER  
1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1

AN 132:9597 CA  
TI Antisense oligonucleotides directed to cell cycle-associated protein Ki-67  
mRNA for killing proliferating cells  
IN Flad, Hans-Dieter; Gerdes, Johannes; Boehle, Andreas; Deinert, Irina  
PA Forschungszentrum Borstel Zentrum fuer Medizin und Biowissenschaften,  
Germany  
SO Ger. Offen., 36 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
IC ICM C07H021-00  
ICS C12N015-11; A61K048-00  
CC 3-1 (Biochemical Genetics)  
Section cross-reference(s): 1  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19822954	A1	19991125	DE 1998-19822954	19980522
	WO 9961607	A2	19991202	WO 1999-EP3451	19990520
	WO 9961607	A3	20000323		
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9943636	A1	19991213	AU 1999-43636	19990520
	EP 1080192	A2	20010307	EP 1999-926337	19990520
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	DE 1998-19822954				19980522
	WO 1999-EP3451				19990520
AB	Use of antisense oligonucleotides to Ki-67 mRNA to kill proliferating cells is disclosed. The cytotoxic effects on bladder carcinoma cells of a				

23-base oligodeoxyribonucleotide complementary to Ki-67 mRNA encoding the N-terminus was demonstrated.

ST antitumor antisense oligonucleotide cell cycle protein Ki67 mRNA

IT Proteins, specific or class  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (Ki-67; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Allergy inhibitors  
 Anti-inflammatory agents  
 Antirheumatic agents  
 Antitumor agents  
 (antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Antisense oligonucleotides  
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Antitumor agents  
 (bladder carcinoma; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Bladder  
 Bladder  
 (carcinoma, inhibitors; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Transplant rejection  
 (prevention of; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Skin, disease  
 (scar, prevention of formation of; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Autoimmune disease  
 (treatment of; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT 152232-54-7  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (amino acid sequence; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT 251301-36-7  
 RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
 (antisense oligonucleotide; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT 151581-02-1 251101-00-5  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
 (nucleotide sequence; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT 251353-35-2, 2: PN: DE19822954 PAGE: 3 unclaimed DNA 251353-36-3, 4: PN: DE19822954 PAGE: 3 unclaimed DNA  
 RL: PRP (Properties)  
 (unclaimed nucleotide sequence; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

L1 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 251301-36-7 REGISTRY

CN DNA, d(P-thio)(A-C-C-A-G-G-C-G-T-C-T-C-G-T-G-G-G-C-C-A-C-A-T) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3: PN: DE19822954 SEQID: 3 claimed DNA  
 FS NUCLEIC ACID SEQUENCE  
 SQL 23  
 NA 4 a 8 c 7 g 4 t  
 NTE

type	location		description
modified link	a-1	- c-2	P-thio
modified link	c-2	- c-3	P-thio
modified link	c-3	- a-4	P-thio
modified link	a-4	- g-5	P-thio
modified link	g-5	- g-6	P-thio
modified link	g-6	- c-7	P-thio
modified link	c-7	- g-8	P-thio
modified link	g-8	- t-9	P-thio
modified link	t-9	- c-10	P-thio
modified link	c-10	- t-11	P-thio
modified link	t-11	- c-12	P-thio
modified link	c-12	- g-13	P-thio
modified link	g-13	- t-14	P-thio
modified link	t-14	- g-15	P-thio
modified link	g-15	- g-16	P-thio
modified link	g-16	- g-17	P-thio
modified link	g-17	- c-18	P-thio
modified link	c-18	- c-19	P-thio
modified link	c-19	- a-20	P-thio
modified link	a-20	- c-21	P-thio
modified link	c-21	- a-22	P-thio
modified link	a-22	- t-23	P-thio

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
=====	=====
Not Given	DE19822954
	claimed
	SEQID 3

SEQ 1 accaggcgctc tcgtgggccca cat  
 =====

HITS AT: 1-23

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER  
 1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1

AN 132:9597 CA  
 TI Antisense oligonucleotides directed to cell cycle-associated protein Ki-67 mRNA for killing proliferating cells  
 IN Flad, Hans-Dieter; Gerdes, Johannes; Boehle, Andreas; Deinert, Irina

PA Forschungszentrum Borstel Zentrum fuer Medizin und Biowissenschaften,  
Germany  
SO Ger. Offen., 36 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
IC ICM C07H021-00  
ICS C12N015-11; A61K048-00  
CC 3-1 (Biochemical Genetics)  
Section cross-reference(s): 1  
FAN.CNT 1

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	WO 9961607	A3	20000323		
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9943636	A1	19991213	AU 1999-43636	19990520
	EP 1080192	A2	20010307	EP 1999-926337	19990520
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	DE 1998-19822954		19980522		
	WO 1999-EP3451		19990520		
AB	Use of antisense oligonucleotides to Ki-67 mRNA to kill proliferating cells is disclosed. The cytotoxic effects on bladder carcinoma cells of a 23-base oligodeoxyribonucleotide complementary to Ki-67 mRNA encoding the N-terminus was demonstrated.				
ST	antitumor antisense oligonucleotide cell cycle protein Ki67 mRNA				
IT	Proteins, specific or class				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (Ki-67; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)				
IT	Allergy inhibitors				
	Anti-inflammatory agents				
	Antirheumatic agents				
	Antitumor agents				
	(antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)				
IT	Antisense oligonucleotides				
	RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)				
IT	Antitumor agents				
	(bladder carcinoma; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)				
IT	Bladder				
	Bladder				
	(carcinoma, inhibitors; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)				
IT	Transplant rejection				
	(prevention of; antisense oligonucleotides directed to cell				



cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Skin, disease  
(scar, prevention of formation of; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT Autoimmune disease  
(treatment of; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT 152232-54-7  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(amino acid sequence; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT 251301-36-7  
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
(antisense oligonucleotide; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT 151581-02-1 251101-00-5  
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
(nucleotide sequence; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

IT 251353-35-2, 2: PN: DE19822954 PAGE: 3 unclaimed DNA 251353-36-3, 4: PN: DE19822954 PAGE: 3 unclaimed DNA  
RL: PRP (Properties)  
(unclaimed nucleotide sequence; antisense oligonucleotides directed to cell cycle-assocd. protein Ki-67 mRNA for killing proliferating cells)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.37	107.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.18

STN INTERNATIONAL LOGOFF AT 14:13:42 ON 16 DEC 2002